

IV-00-001.1



March 22, 2001

2643  
RECEIVED  
MAR 28 2001  
Technology Center 2600

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

Fr: George O. Saile, Reg. No. 19,572  
20 McIntosh Drive  
Poughkeepsie, N.Y. 12603

Subject:

Serial No. 09/748,442 12/27/00

Dah-Weih Duan, Aparna Pappu,  
Monsong Chen, Bodhi Mukherjee

BROADBAND VIDEO DISTRIBUTION SYSTEM  
USING SEGMENTS

Grp. Art Unit: 2643  
-----

#### INFORMATION DISCLOSURE STATEMENT

Enclosed is Form PTO-1449, Information Disclosure Citation  
In An Application.

The following Patents and/or Publications are submitted to  
comply with the duty of disclosure under CFR 1.97-1.99 and  
37 CFR 1.56. Copies of each document is included herewith.

U.S. Patent 6,101,546 to Hunt, "Method and System for  
Providing Data Files that are Partitioned by Delivery Time and  
Data Type", describes a method and system for providing data  
files that are partitioned by delivery time and data type.

U.S. Patent 6,018,359 to Kermode et al., "System and Method for Multicast Video-on-Demand Delivery System", illustrates a system and method for multicast video-on-demand delivery system.

U.S. Patent 5,930,473 to Teng et al., "Video Application Server for Mediating Live Video Services", discloses a video application server for mediating live video services.

U.S. Patent 6,101,547 to Mukherjee et al., "Inexpensive, Scalable and Open-Architecture Media Server", describes an inexpensive, scalable and open-architecture media server.

U.S. Patent 5,805,821 to Saxena et al., "Video Optimized Media Streamer User Interface Employing Non-Blocking Switching to Achieve Isochronous Data Transfers", teaches a video optimized media streamer user interface employing non-blocking switching to achieve isochronous data transfers.

U.S. Patent 5,550,577 to Verbiest et al., "Video on Demand Network, Including a Central Video Server and Distributed Video Servers with Random Access Read/Write Memories", illustrates a video on demand network, including a central video server and distributed video servers with random access read/write memories.

"Performance Evaluation of QuickVideo OnDemand (QVOD) Server", InfoValue Computing, Inc. Technical Report IV-TR-QVOD-1999-07-1-1, July 8, 1999, pp. 1-10, InfoValue Computing, Inc., Elmsford, NY, describes a video on-demand system developed for high performance, effective and flexible, network-based, on-demand sharing of videos.

"Network Video Computing Via QuickVideo Suite", InfoValue Technical White Paper, InfoValue Computing, Inc., Elmsford, NY, 1999, describes Network Video Computing the core of which is video streaming.

"Web Distribution Systems: Caching and Replication" Chandbok, Ohio State University, 1999, found [http://www.cis.ohio-state.edu/~jain/cis788-99/web\\_caching/index.html](http://www.cis.ohio-state.edu/~jain/cis788-99/web_caching/index.html), 8/15/00, provides an overview of the current techniques for caching and replication of digital data on computer systems interconnected through a global or local digital communication network.

U.S. Patent 6,088,721 to Lin et al., "Efficient Unified Replication and Caching Protocol", teaches an efficient unified replication and caching protocol.

U.S. Patent 6,061,504 to Tzelnic et al., "Video File Server Using an Integrated Cached Disk Array and Stream Server Computers", illustrates a video data file server using an integrated cached disk array and stream server computer.

"Network Caching Guide", Goulde, Patricia Seybold Group for Inktomi Corp., pp. 1-42, Boston, MA, March 1999, describes the various types of caching approaches and the different ways for caches to be implemented.

"Inktomi Traffic Server - Media Cache Option", Inktomi Corporation, San Mateo, CA, 1999, found <http://www.inktom.com>, 8/15/00, describes the caching option for the Inktomi Traffic Server to support streaming of video data files.

"Implementing Multiplexing, Streaming, and Server Interaction for MPEG-4", Kalva et al., IEEE Transactions On Circuits and Systems for Video Technology, Vol. 9, No. 8, December 1999, pp. 1299-1312, describes the implementation of a streaming client-server system for object-based audio-visual presentations in general and MPEG-4 content in particular.

"New Solution for Transparent Web Caching: Traffic Server 2.1 Supports WCCP", Inktomi Corporation, San Mateo, CA, 2000, found <http://www.inktom.com/product/network/traffic/tech/wccp>, 8/15/00, describes the use of the Web Cache Control Protocol (WCCP) from Cisco Systems, Inc. within Inktomi Corporation's Traffic Server.

"API Overview," Inktomi Corporation, San Mateo, CA, 2000, found <http://www.inktom.com/products/network/traffic/tech/wccp> describes the application program interface tools that are available for the Inktomi Corporation's Traffic Server which allow customization of the Traffic Server's event processing thus allowing manipulation of hypertext transaction protocol (HTTP) transactions at any point in their lifetime.

"Web Cache Communication Protocol v2", Cisco Systems, Inc., San Jose, CA, found <http://www.cisco.com/univercd/cc/td/doc/product/software/ios120/120newft/120t/1203/weep.htm>, 8/15/00, describes the protocol that allows the use of a Cisco Cache Engine to handle web traffic, reducing transmission costs and downloading time.

"A Practical Methodology for Guaranteeing Quality of Service for Video-On-Demand", Zamora et al., IEEE Transactions On Circuits and Systems for Video Technology, Vol. 10, No. 1, February 2000, describes an approach for defining end-to-end quality of service (QoS) in video-on-demand (VoD) services.

U.S. Patent 5,926,649 to Ma et al., "Media Server for Storage and Retrieval of Voluminous Multimedia Data", teaches a Media server for storage and retrieval of voluminous multimedia data.

U.S. Patent 5,936,659 to Viswanathan et al., "Method for Video Delivery Using Pyramid Broadcasting", illustrates a method for broadcasting movies within channels of a wide band network by breaking the communications path into a number of logical channels and breaking each movie up into a number of segments of increasing size.

U.S. Patent 5,973,679 to Abbott et al., "System and Method for Media Stream Indexing", describes an indexing method for allowing a viewer to control the mode of delivery of program material.

U.S. Patent 5,996,015 to Day et al., "Method of Delivering Seamless and Continuous Presentation of Multimedia Data Files to a Target Device by Assembling and Concatenating Multimedia Segments in Memory", describes a method of delivering seamless and continuous presentation of multimedia data files to a target device by assembling and concatenating multimedia segments in memory.

U.S. Patent 5,608,448 to Smoral et al., "Hybrid Architecture for Video on Demand Server", describes a hybrid architecture for a video demand server.

IV-00-001.1

U.S. Patent 6,061,732 to Korst et al., "Data Streaming System Utilizing an Asynchronous Technique for Retrieving Data from a Stream Server", describes a data streaming system utilizing an asynchronous technique for retrieving data from a stream server.

U.S. Patent 5,414,455 to Hooper et al., "Segmented Video on Demand System", teaches a segmented video on demand system.

Sincerely,

A handwritten signature in black ink, appearing to read 'SBA', with a long horizontal flourish extending to the right.

Stephen B. Ackerman,  
Reg. No. 37761

# INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Docket Number (Optional)

IV-00-001.1

Application Number

09/748,442

Applicant

Dah-Wei Duan et al.

Filing Date

12/27/00

Group Art Unit

2643

## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	NUM. DATE IF APPROPRIATE
	6101546	8/8/00	Hunt	709	231	5/14/98
	6018359	1/25/00	Kermode et al.	348	7	4/24/98
	5930473	7/27/99	Teng et al.	395	200.34	3/8/96
	6101547	8/8/00	Mukherjee et al.	709	231	7/14/98
	5805821	9/8/98	Saxena et al.	395	200.61	8/5/97
	5550577	8/27/96	Verbiest et al.	348	7	5/19/94
	6088721	7/11/00	Lin et al.	709	214	10/20/98
	6061504	5/9/00	Tzelnic et al.	395	200.49	6/10/96
	5926649	7/20/99	Ma et al.	395	826	10/23/96
	5936659	8/10/99	Viswanathan et al.	348	7	1/31/97
	5973679	10/26/99	Abbott et al.	345	302	3/31/97

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation YES NO

RECEIVED

MAR 28 2001

Technology Center 2600

## OTHER DOCUMENTS (Including Author, Title, Date, Portion of Pages, Etc.)

	Performance Evaluation of QuickVideo OnDemand (QVOD) Server, InfoValue Computing, Inc. Technical Report IV-TR-QVOD-1999-07-1, July 8, 1999, pp. 1-10, InfoValue Computing, Inc., Elmsford, NY.
	Network Video Computing Via QuickVideo Suite, InfoValue Technical White Paper, InfoValue Computing, Inc., Elmsford, NY, 1999.
	"New Solution for Transparent Web Caching: Traffic Server 2.1 Supports WCCP", Inktomi Corp., San Mateo, CA, 2000, found <a href="http://www.inktomi.com/product/network/traffic/tech/wccp/8/15/00">http://www.inktomi.com/product/network/traffic/tech/wccp/8/15/00</a> .
	"Web Distribution Systems: Caching and Replication", Chandbook, Ohio State University, 1999, found <a href="http://www.cis.ohio-state.edu/~jain/cis788-99/web_caching/index.html">http://www.cis.ohio-state.edu/~jain/cis788-99/web_caching/index.html</a> , 8/15/00.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.





Doctos (Hominis) (Opesnas)

Expression Number

09/748,442

Lytle

Dah-Wei Duan et al.

Filing Date

12/27/00

Group 11 Unit

2643

(Use several sheets if necessary)

EXMINER  
KPA

DOCUMENT NUMBER

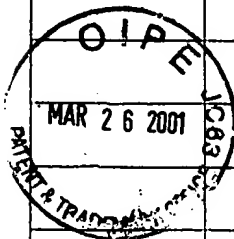
0175

JUNE

Class

SUBCLASS

PLUMB DATE  
X APPROXIMATE



## DOCUMENT NUMBER

DATE \_\_\_\_\_

COUNTRY

CLASS

SUBCLASS

Translation

YES

NO

OTHER DOCUMENTS (Including Author, Title, Date, Portion or Pages, Etc.)

"API Overview," InkTomi Corporation San Mateo, CA, 2000, found <http://www.inktom.com/products/network/traffic/tech/wccp>.

"Web Cache Communication Protocol V2", Cisco Systems, Inc., San Jose, CA, found <http://www.cisco/univercd/cc/td/doc/product/software/ios120/120newft/120t/1203/weep.htm>, 8/15/00.

"A Practical Methodology for Guaranteeing Quality of Service for Video On-Demand", Zamora et al. IEEE Transactions On Circuits and Systems for Video Technology, Vol.10, No.1, February 2000.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.